



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

May 21, 2009

VIA CERTIFIED MAIL 7002 0510 0004 2582 7762

Mr. Joe Sutton, Area Manager
Veolia ES Blackfoot Landfill, Inc.
3726 East State Road 64
Winslow, Indiana 47598

Dear Mr. Sutton:

Re: Approval of Renewal of
Solid Waste Facility Permit
FP 63-04
Veolia ES Blackfoot Landfill, Inc.
Pike County

The facility permit renewal application for the above-referenced facility received on September 18, 2008, for the Veolia ES Blackfoot Landfill, Inc. has been reviewed and certified as meeting the requirements of IC 13-15-1-3 and 329 IAC 10-11. This permit renewal applies to the municipal solid waste landfill located at 2.5 miles southeast of the town of Arthur in Pike County, Indiana, which contains approximately 164 acres approved for filling. The permittee or operator shall operate this facility according to the terms and requirements of this renewal permit letter and enclosures and the applicable statutes and regulations in effect on the effective date of this renewal. This facility permit renewal FP 63-04 will expire on May 1, 2014.

This permit renewal allows Veolia ES Blackfoot Landfill, Inc. to update the facility design to comply with current rules and allows operations to continue at the facility subject to the terms of this letter and the enclosed requirements. In accordance with 329 IAC 10-13-4, solid waste facility permit FP 63-04 does not authorize: any injury to any person or private property; the invasion of other private rights; the infringement of federal, state, or local laws or regulations; nor preempt any duty to comply with other state or local requirements.

In accordance with 329 IAC 10-13-3, this permit is valid through May 1, 2014. To continue operation past this period, a renewal application in accordance with 329 IAC 10-11-5.1(b) must be submitted a minimum of one hundred twenty (120) days prior to the expiration date of the permit.

Mr. Sutton

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Pursuant to IC 4-21.5, a Petition for Review of this permit renewal letter may be initiated by you, as applicant, or by an "aggrieved or adversely affected person." This permit renewal becomes effective once all applicable time periods for petitioning for Stays of Effectiveness have expired, unless you are notified in writing by an Environmental Law Judge that the permit renewal has been further stayed. As discussed in our enclosed Notice of Decision, if you wish to challenge this decision, you must file a Petition for Review with the Office of Environmental Adjudication within eighteen (18) days from the date that this permit renewal letter was mailed, pursuant to IC 4-21.5-3-7.

If you have any questions or comments about your application or the permitting process, call (800) 451-6027, press 0 and ask for Kelly Hall or extension 3-0449, or call direct at (317) 233-0449.

Sincerely,



Thomas Linson, Chief
Permits Branch
Office of Land Quality

Enclosures: Notice of Decision
Letter to the The Press-Dispatch
Letter to the Pike County Public Library
Permit Requirements
Leachate Generation and Recirculation Report

cc: Pike County Health Department (with enclosures)
The Honorable Mark Flint, President, Pike County Commissioners (with enclosures)
Pike County Solid Waste Management District (with enclosures)
IDEM, Southwest Regional Office (with enclosure)

PERMIT REQUIREMENTS

- A. General Permit Requirements**
- B. Construction Requirements**
- C. Operational Requirements**
- D. Gas Emission Control and Monitoring**
- E. Ground Water Monitoring Requirements**
- F. Closure Requirements**
- G. Post-Closure Requirements**
- H. Financial Responsibility for Closure and Post-Closure**

A. GENERAL PERMIT REQUIREMENTS

- A1. The permittee shall comply with all the applicable requirements of 329 IAC 10, where not specifically addressed in this permit.
- A2. It is recommended that all required submittals be printed double-sided and sent via certified mail. An additional copy should also be submitted in Acrobat PDF format by CD, DVD, or other media acceptable to the Indiana Department of Environmental Management (IDEM). All reports, notifications, ground water reports, and other information required to be submitted by this permit should be sent to:

**Kelly Hall
Indiana Department of Environmental Management
Office of Land Quality
Solid Waste Permits Section
100 North Senate Avenue, Rm. 1154
Indianapolis, Indiana 46204-2251**

- A3. The permittee shall report to IDEM any event which may cause an imminent and substantial endangerment to human health or the environment. This information must be reported orally to IDEM within twenty-four (24) hours from the time the permittee becomes aware of the event. The permittee shall also provide a written report to IDEM within seven (7) days of the time of the event. The report shall include for each event: date and time, possible causes, actions taken or planned to correct, reduce, eliminate, and prevent recurrence of the event.

B. CONSTRUCTION REQUIREMENTS

- B1. The permittee shall comply with 329 IAC 10-17 (Construction Requirements).
- B2. The permittee shall notify IDEM in writing at least fifteen (15) days in advance of the construction of each unit or portion of the unit.
- B3. The permittee shall submit a construction certification report as required by 329 IAC 10-19.
- B4. All liner and final cover components such as: clay-type soil, drainage material, geomembrane, geotextile, geocomposite, geosynthetic clay liner (GCL), and protective cover, if applicable, must be tested and installed as specified in the approved Construction Quality Assurance (CQA) Plan and the applicable requirements of 329 IAC 10-15-7 and 329 IAC 10-17 except as otherwise noted in this permit.
- B5. All leachate collection pipes and sumps shall be free of obstructions prior to placement of waste in a newly constructed unit or portion of the unit.
- B6. The base grades for the facility shall be constructed as shown on Sheet 2 of 4 entitled "Liner Layout" received by IDEM on March 1, 2004.

- B7. Upon selection of the specific geosynthetic materials for the liner and the final cover system components, the permittee shall perform the appropriate tests to document the interface friction values for the geosynthetic materials, soil liner, drainage layer and protective layer to be used in the construction of the facility. In the event that the newly obtained site-specific test results show that the values are less than those assumed in the calculations in the permit application, the permittee shall revise the slope stability analyses to document that the minimum factor of safety has been obtained, as required by 329 IAC 10-15-8, and 329 IAC 10-17, as applicable. The material-specific interface friction values and/or the revised slope stability analyses shall be included in the construction certification report, as required by 329 IAC 10-19.
- B8. Alternative soil testing for the construction of the soil liner shall be done in accordance with the Quality Assurance/Quality Control Plan in the Minor Modification Application submitted on April 3, 2000.
- a. Soil used in the alternative testing procedure shall meet the requirements of 329 IAC 10-17-5(e).
 - b. The hydraulic conductivity of the soil liner must be confirmed by using in-situ hydraulic conductivity testing as required by 329 IAC 10-17-5(d).
- B9. Interface strength test data shall be submitted to IDEM in the construction certification report, as required by 329 IAC 10-19, verifying the selected materials used in the bottom liner system for the geotextile/geomembrane interface have a residual strength interface friction angle of 11° or greater.

C. OPERATIONAL REQUIREMENTS

- C1. The permittee shall comply with 329 IAC 10-20 (Operational Requirements).
- C2. The site benchmark shall be maintained throughout the entire life and post-closure care period of the facility and noted on all submitted maps.
- C3. Solid waste disposal shall be limited to the areas delineated by the solid waste boundary line as shown on sheet number 1 of 15, entitled "General Site Plan" dated November 1997, and received by IDEM on March 20, 1998.
- C4. The permittee shall maintain, as applicable, an adequate leachate storage capacity during the landfill operation and the post-closure period to ensure proper operation of the leachate collection system and compliance with 329 IAC 10-20-20 (the leachate collection system and sump areas located within the waste disposal unit are not considered adequate storage.) The leachate level in the sumps and manholes shall be maintained at the approved depth. The leachate storage shall be operated in an environmentally safe manner. Within twenty-four (24) hours, the permittee shall implement a leachate contingency plan if the facility is not in compliance with 329 IAC 10-20-20.

- C5. The permittee shall conduct leachate sampling and analysis as required by the wastewater treatment plant or other leachate disposal facility, as applicable, and the results shall be kept in the facility's operating record. The volume of leachate generated shall be submitted to IDEM on an annual basis on the enclosed "Leachate Generation and Recirculation Report" or on a similar report developed by the permittee. The annual leachate report must be submitted on or before March 1 of each year for the previous year. The submittal shall include a summary report on leachate recirculation operational performance indicating any problems that may have occurred during the past year such as excessive leachate ponding, odors, leachate seeps, surface leachate runoff and remediation steps taken to correct problems.
- C6. Alternative daily cover (ADC) shall be applied in compliance with 329 IAC 10-20-14.1 and the following requirements, only in areas of the landfill that are constructed with a leachate collection system and a composite liner system:
- a. ADC materials permitted for use are:
 - (1) Fabric tarps
 - (2) Altered tires
 - (3) Wood chips
 - (4) Compost and soil mixtures
 - (5) Category B foundry sand
 - (6) Conditioned fly ash
 - (7) Petroleum-contaminated soils
 - (8) Geomembranes
 - (9) Select construction and demolition materials
 - (10) HDPE sled
 - (11) Plastic films
 - (12) Paper sludge
 - b. ADC materials 1 through 11 listed in Requirement C6.a shall comply with 329 IAC 10-20-14.1(f). ADC item 12, areas covered with paper sludge that do not receive waste within ninety (90) days will have an additional six (6) inches of compacted soil or compacted recycled fiber sludge applied to satisfy the intermediate cover thickness requirement of twelve (12) inches.
- C7. The permittee may recirculate leachate by spraying on the working face "direct application" method or the "vertical well injection" method in accordance with 329 IAC 10-20-20, 329 IAC 10-20-21 and the following requirements:

The following requirements apply to all methods for leachate recycling:

- a. Leachate shall be recycled by using the approved leachate recirculation methods, only in areas of the landfill that are constructed with a composite liner system, and leachate collection system satisfying the requirements of 329 IAC 10-20-21.
- b. Leachate shall be recycled at a ratio not exceeding 50 gallons of leachate per ton of waste deposited. The permittee shall maintain in the facility operating records

a log documenting the volume of leachate recirculated each day. In the event the permittee is operating a continuous flow meter, the permittee shall keep a log documenting the amount of leachate recirculated on a bi-monthly basis. This log will be in lieu of the daily log.

- c. Whenever leachate recycling is performed, the permittee shall provide a pump with the portable leachate holding tank, or other leachate transport device used, to pick up any spills that may occur. Soils contaminated by any leachate runoff shall be excavated and buried within the working face of the landfill.
- d. If leachate is pumped into a portable leachate holding tank or other conveyance used to transport leachate for recirculation, the filling operation shall be only done in an area equipped with a three (3) foot thick pad surrounded by a two (2) foot high berm, both of compacted clay. The filling area pad shall slope a minimum of one (1) percent towards the berm and shall be covered with a hard, driving surface. The filling area may be of an alternative design as approved by the commissioner if it provides equivalent environmental protection (e.g. a sloped concrete containment pad). Any leachate spills in the leachate loading area must be cleaned up each time the spill occurs.
- e. Should the leachate recycling method fail to satisfy the requirements of 329 IAC 10-20-20 for proper operation of the leachate collection and removal system and 329 IAC 10-20-21(b)(4) for the control of odors, contamination of runoff, or damage to vegetation, the permittee shall cease leachate recirculation until the leachate recirculation system is modified to comply with 329 IAC 10-20-21(c). The permittee shall notify IDEM of the shut down event within 24 hours.
- f. It is recommended that the permittee shall implement appropriate health and safety protection standards found in OSHA during the operation of the leachate recirculation system.
- g. Only one leachate recirculation method may be performed in the same area of the landfill at one time.

The following requirements apply only to the "Direct Application" method for leachate recirculation:

- h. Leachate shall be applied by spraying, directly and uniformly, onto the solid waste either prior to or during the waste compaction operation and at no time shall be applied without an observer present. Dumping of leachate, without using a spray irrigation system, shall not be permitted. The leachate recirculation shall not be conducted until a minimum of thirty (30) feet of waste has been placed over the bottom of the landfill. The "Direct Application" method shall be limited to the working face and the 50-foot buffer zone shall be maintained from finished, exterior landfill slopes.
- i. The permittee shall construct a runoff control berm at the downslope toe of the working face to confine runoff to the working face area of the landfill. Any

leachate runoff shall be immediately controlled with a portable pump. Soils contaminated by leachate runoff shall be buried within the working face.

- j. The "Direct Application" method shall not be used during periods of rain, when the forecast for rain is above 50 percent, when wind conditions would cause leachate to be blown onto personnel and during periods of extremely cold temperatures.
- k. No direct application will be performed in areas of the working face where waste-unloading operations are being performed.

The following requirements apply to the "Vertical Well Injection" method of leachate recirculation:

- l. The permittee shall place a minimum of thirty (30) feet of waste over the bottom of the landfill before installing the first set of the vertical injection wells. The vertical injection pipe shall be placed no closer than fifty (50) feet from the exterior slopes and the active working face of the landfill. The permittee shall maintain a minimum of ten (10) feet of vertical separation between the perforated section of the leachate injection pipe and the top of the landfill final cover. To prevent recirculated leachate spilling from the wells onto the ground surface the top of the well casing shall be extended through the waste surface, and landfill cover.
 - m. Adequate time will be allowed between injection events so that wetting of waste can be uniform throughout the landfill. The area in which vertical injection will occur shall be monitored on a daily basis during the use of the system for evidence of leachate seeps and system malfunction. If problems occur, leachate recirculation shall be immediately stopped. The surface area around the vertical injection wells shall be properly maintained in accordance with 329 IAC 10-20-13 and 14.
- C8. The storm water pollution prevention plan (SWP3) drawings and documentation dated July 28, 2004 and received by IDEM on August 2, 2004, and additional information dated January 19, 2005 and received by IDEM on January 27, 2005, have been approved with the following requirements:
- a. The storm water drainage is currently collected by drainage swales, downdrops and ditches, which in turn convey the water to outfall #1, which is located at the southwest corner of the facility.
 - b. The permittee shall comply with all of the permit requirements that pertain to any previous modification and the renewal concerning the SWP3, unless otherwise specified here.
 - c. The permittee shall assure compliance with the requirements of 329 IAC 10-15-12.

- d. The permittee shall follow the SWP3 plans and documentation dated July 28, 2004, and received by IDEM on August 2, 2004, and additional information dated January 19, 2005, and received by IDEM on January 27, 2005.
 - e. Semi-annual storm water sampling analyses data taken from the facility sedimentation ponds/basins must be submitted within sixty (60) days following the collection of each semi-annual sample. Other storm water discharge outfalls where storm water exposed to industrial activity discharges to waters of the states must follow the sampling procedures as described in 327 IAC 15-6-7.3(a)(5) through (9) and monitor the parameters listed in 329 IAC 10-20-11(f)(1).
 - f. In the event that there are any changes to a SWP3 as a result of management practices, administration changes, or other similar changes, the updated plan must be kept on-site and must be available at the time of an IDEM on-site inspection.
 - g. All records and information resulting from the storm water sampling events, including all records of analyses performed and calibration and maintenance of all instrumentation, must be retained for a minimum of three (3) years.
 - h. All land disturbance activities must be in compliance with the erosion/sedimentation control practices as required by and applicable to 329 IAC 10. The facility may use the document entitled "Indiana Handbook for Erosion Control in Developing Areas Manual" dated October 1992. This manual can be obtained from the Division of Soil Conservation, Indiana Department of Natural Resources.
 - i. Per 329 IAC 10-20-28 regarding self-inspection, the permittee shall monitor and inspect the facility a minimum of twice each month, including all temporary and permanent erosion and sedimentation control structures such as, but not limited to, drainage features, berms, dikes, outfall discharges, rip-rap, silt fences, vegetative cover, erosion control blankets or geotextiles, sediment traps and basins, pumps and sumps, culverts and on-site borrow pits.
- C9. The permittee shall conduct waste solidification at the facility in accordance with the minor modification application dated January 28, 2002, received by IDEM on February 18, 2002 and the Minor Modification Liquid Waste Stabilization/Solidification Process RAI Response, dated April 5, 2002, received by IDEM on April 9, 2002, and the following requirements:
- a. The stabilization basins must be leak-proof and placed over a one (1)-foot thick compacted clay pad. The pad must be sloped and bermed to prevent liquid escape from the solidification area. The compacted clay pad may be placed over the waste in a manner that does not disrupt normal activities. When placed over the waste, the compacted clay pad must be over the composite liner and leachate collection system.
 - b. Any liquid on the clay pad, except precipitation, shall be immediately removed.

- c. The permittee shall develop and implement a contingency plan with exact treatment procedures and appropriate materials, and a copy of the plan shall be available on site for IDEM staff to review.
- d. Waste left overnight in the solidification process containers must be appropriately covered.

D. GAS EMISSION CONTROL AND MONITORING

- D1. The permittee shall comply with 329 IAC 10-20-17 (Explosive Gases), 40 CFR 60 subparts Cc and WWW (NSPS/EG) and 326 IAC 8-8 and 8-8.1, as applicable.
- D2. Pursuant to 329 IAC 10-20-17, the permittee must revise the methane monitoring program (MMP) dated November 19, 1993 within ninety (90) days for the Commissioner's approval. This submittal must include one (1) original paper copy and an electronic PDF formatted electronic file. The Commissioner's review of the MMP will be based on the IDEM's non-rule policy document for an MMP available on the IDEM website at http://www.in.gov/idem/rules/policies/sw/mmp_npd.html. The permittee must further revise the MMP if notified to do so by OLQ or if methane gas levels trigger additional remediation as required by 329 IAC 10-20-17(d). Any revision to the MMP must be approved by OLQ prior to implementation.
- D3. This letter concerns only the results from a review of an application for a solid waste facility permit. It does not constitute the following:
 - a. The results from a review of an NSPS/EG design plan for compliance with the criteria found at 40 CFR 60.
 - b. The results of a review for a Title V operating permit for your facility.
 - c. The status at your facility of the air construction permit needed for the control device in your collection and control system, either alone or as part of an application for an Enhanced New Source Review Title V permit.

E. GROUND WATER MONITORING REQUIREMENTS

- E1. The permittee shall comply with 329 IAC 10-21.
- E2. The detection monitoring system includes the ground water monitoring wells: MW-2S (see Requirement E8), MW-4SR, MW-107S, MW-114S, MW-116S (see Requirement E13), MW-119S, MW-119D (see Requirement E13), and MW-120S.
- E3. For the "S" series wells, detection monitoring shall take place in May and November of every year. For monitoring well MW-119D, annual sampling, as allowed under 329 IAC 10-21-7(a)(3), shall take place in May of every year.

- E4. Pursuant to 329 IAC 10-21-2, the permittee must follow the ground water monitoring plan (Sampling and Analysis Plan (SAP)) dated November 2007. The permittee must revise the SAP if notified to do so by OLQ. Any revision to the SAP must be approved by OLQ prior to implementation, but will not be considered a modification of this permit.
- E5. All analytical data from required ground water sampling events must be submitted to OLQ within sixty (60) days of the sampling event. This submittal must include one (1) original, unbound laboratory certified report with field sheets and chain of custody forms; one (1) PDF formatted electronic version, and one (1) electronic version of the analytical results with the field parameters including pH, specific conductance, dissolved oxygen, Eh, temperature, well depth, depth to water, and static water elevation.

The electronic version must be on a DOS formatted 3 1/2 inch diskette, or CD-ROM; or may be submitted via electronic mail (e-mail) to the e-mail address, **olqdata@idem.in.gov**. The facility name and a brief description of the file contents should be clearly marked on the digital media or typed in the subject heading of the e-mail. The electronic version should be submitted as an ASCII, tab-delimited text file and contain the facility's name, permit number, and the name of the analytical laboratory. Field parameters and analytical results must include the fields listed below:

1. Sampling Date: Month, day, and year;
 2. Well Name: Include permitted and corrective action wells;
 3. Sample Type: Regular, duplicate(s), trip blank(s), equipment blank(s), field blank(s), verification re-sample(s) and replicate(s);
 4. Sample Medium: Ground water, leachate, soil, surface water, etc.;
 5. Species Name: Chloride, sodium, ammonia, etc. (Identify metals as being analyzed in the "total" phase or "dissolved" phase. Example: arsenic (dissolved).);
 6. Concentration (results): The entry must be a number. Do not enter text, such as "NA", "ND" or "<"
 7. Concentration Units: mg/l, ug/l, standard units for pH, degrees Celsius (°C), or degrees Fahrenheit (°F) for temperature, mvolts for Eh, and umhos/cm for specific conductance;
 8. Detected: Yes or No;
 9. Detection Limit;
 10. Analytical Methods;
 11. Estimated Value: Indicate "Yes" if the reported value is an estimated value. If a value is estimated, use the "Comment" field to explain why the value was estimated; and
 12. Comment: Analytical lab and/or field personnel comments regarding the reported results.
- E6. Pursuant to 329 IAC 10-21-6, the permittee must follow the Statistical Evaluation Plan (StEP) dated October 8, 2004 and its associated IDEM letter dated April 26, 2005. The permittee must revise the StEP if notified to do so by OLQ. Any revision to the StEP must be approved by OLQ prior to implementation, but will not be considered a modification of this permit.

- E7. In addition to collecting and submitting measurements for static-water levels for the detection monitoring wells during the months of May and November, measurements shall be collected and submitted for the following piezometers: PZ-1D, PZ-2S, MW-3S (see Requirement E14), PZ-5S, PZ-115S, PZ-116S, PZ-117SR, PZ-118S, and PZ-118D. The measurements shall be included on their respective potentiometric map; the "S" zone and the "D" zone. Piezometers PZ-118S and PZ-118D shall be abandoned when necessary. (See Requirement E11.)
- E8. The piezometer PZ-2S shall be converted to a ground water monitoring well when waste placement is initiated north and west of the coordinates N50000 and E141750. (The coordinate system is that system illustrated on Figure 3 of the report titled, *Hydrogeological Investigation Phase III-Ground Water Monitoring System Upgrade Proposal*, dated July 25, 1997 and received by IDEM on August 4, 1997.)
- E9. If an assessment monitoring program is required, any of the upgradient piezometers PZ-1S, PZ-5S, PZ-115S, and MW-117SR may be converted to upgradient monitoring wells if deemed necessary by the Commissioner.
- E10. Prior to waste placement in any area south of the coordinate N50000 and west of the coordinate E141500, the monitoring wells MW-114S and MW-120S must be abandoned and a replacement well for each of these wells shall be located approximately west of each well's respective abandoned well unless the solid waste boundary is modified to place each existing well outside the solid waste boundary. (The coordinate system is described in Requirement E8.) Each replacement well shall be placed in accordance with 329 IAC 10-21-1(i). Abandonments shall be in accordance with 329 IAC 10-21-1(i).
- E11. Abandonment of piezometers PZ-118S and PZ-118D shall not occur until sixty (60) days prior to the start of unit construction for waste placement in the area where these wells are located. Abandonment of each well shall be in accordance with 329 IAC 10-21-1(i). Each piezometer's abandonment record shall be submitted to IDEM within sixty (60) days following abandonment.
- E12. Piezometers named in Requirement E7 shall include depth to water, static-water level, and silt depth (total depth) in the electronic submittal described in Requirement E5.
- E13. Per 329 IAC 10-21-7(a)(4), the sampling frequency for ground water monitoring well MW-116S is annual. Sampling must occur during May of every year. The sampling frequency shall revert back to the semi-annual schedule of May and November of every year for the following reasons:
- A statistically significant increase or an exceedance of a ground water protection standard that is attributable to the facility occurs;
 - Field pH is recorded below 5 standard units or above 10 standard units (329 IAC 10-21-7(e)) and is attributable to the facility; or
 - The flow component significantly changes towards MW-116S.

E14. For MW-3S, ground water monitoring activities shall occur as follows:

- a. MW-3S shall continue to be used as a piezometer to document that the well is at the high point of a ground water divide. If ground water elevations indicate that the well's location is no longer a ground water high point, then sampling and statistical evaluations must be re-initiated;
- b. Abandonment shall occur when filling activities begin in Cell 9. Abandonment must be in accordance with 329 IAC 10-21-1(i) and a copy of the abandonment documentation must be submitted to OLQ within sixty (60) days following abandonment; and
- c. At the time of the abandonment, a replacement well shall be installed approximately west of its respective abandoned well and outside the solid waste boundary. The location and installation procedures and materials for the replacement well must be approved by the Commissioner prior to installation. Installation shall be in accordance with 329 IAC 10-21-4. The replacement well shall be identified as MW-3SR and shall be ready for sample collection when filling activities begin in Cell 9. MW-3SR shall be included in the detection monitoring system described in Requirement E2.

F. CLOSURE REQUIREMENTS

- F1. The permittee shall comply with 329 IAC 10-22 (Closure Requirements).
- F2. The permittee shall notify IDEM in writing at least fifteen (15) days prior to the intended date to begin closure of each unit or portion of the unit.
- F3. The final cover shall be constructed in accordance with the approved final grading plan, on Sheet 1 of 2, entitled "Final Cover with Drainage Features," prepared by Civil & Environmental Consultants, dated October 8, 2004, and received by IDEM on December 21, 2004. Final cover shall be constructed whenever any area of the landfill is filled to its approved elevation, less the distance attributed to the cover materials or within one hundred eighty (180) days of receiving its final waste volume. This facility closure contains 141 acres of composite cover system and 23 acres of clay cover system.
- F4. Final closure shall proceed in accordance with the facility closure plan dated September 25, 2002, received by IDEM on October 1, 2002, and the applicable requirements of 329 IAC 10.
- F5. The cover materials must be tested and placed in accordance with the approved Construction Quality Assurance plan.
- F6. IDEM certified 12.4 acres of composite cover system as closed and 23 acres of clay cover as closed. However, post-closure of the closed portion of the landfill shall not begin until the entire facility is certified closed.

G. POST-CLOSURE REQUIREMENTS

- G1. The permittee shall perform post-closure monitoring and maintenance in accordance with the applicable requirements of 329 IAC 10-23 and with the facility post-closure plan dated September 25, 2002, and received by IDEM on October 1, 2002.

H. FINANCIAL RESPONSIBILITY FOR CLOSURE AND POST-CLOSURE

- H1. The permittee shall annually update a financial responsibility instrument as required by 329 IAC 10-39 for closure and post-closure. Annual updates shall be submitted no later than June 15 of each year. Any failure to obtain, maintain, or fund any financial mechanism as required shall be grounds for an enforcement action.
- H2. A final contour map which meets the requirements of 329 IAC 10-39-2(c) must also be submitted annually.
- H3. If facility operations, site design, or ground water monitoring are significantly changed to affect the financial responsibility amount, then the permittee shall amend the closure and post-closure cost estimates to reflect these changes.